

Name \_\_\_\_\_



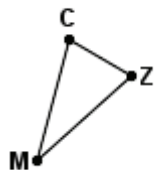
Date \_\_\_\_\_

## The Law of Sines

(Answer ID # 1064323)

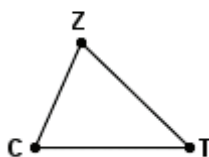
Use the law of sines to solve for the unknown. Assume that all of the angles are acute.

1.



$$\begin{aligned}\angle M &= 33^\circ \\ \overline{MZ} &= 21 \\ \overline{ZC} &= 12 \\ \angle C &= \underline{\hspace{1cm}}^\circ\end{aligned}$$

2.



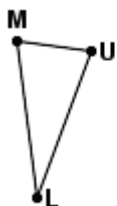
$$\begin{aligned}\angle Z &= 70^\circ \\ \overline{CZ} &= 35.6 \\ \overline{CT} &= 48.1 \\ \angle C &= \underline{\hspace{1cm}}^\circ\end{aligned}$$

3.



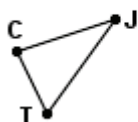
$$\begin{aligned}\angle K &= 88^\circ \\ \angle R &= 66^\circ \\ \overline{PR} &= 6.1 \\ \overline{PK} &= \underline{\hspace{1cm}}\end{aligned}$$

4.



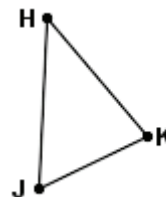
$$\begin{aligned}\angle U &= 78^\circ \\ \angle M &= 75^\circ \\ \overline{UM} &= 74 \\ \overline{LM} &= \underline{\hspace{1cm}}\end{aligned}$$

5.



$$\begin{aligned}\angle C &= 82^\circ \\ \overline{TJ} &= 29 \\ \overline{JC} &= 26 \\ \angle J &= \underline{\hspace{1cm}}^\circ\end{aligned}$$

6.



$$\begin{aligned}\angle K &= 76^\circ \\ \angle J &= 61^\circ \\ \overline{JK} &= 12 \\ \overline{KH} &= \underline{\hspace{1cm}}\end{aligned}$$

7.



$$\begin{aligned}\angle T &= 76^\circ \\ \overline{PV} &= 40.2 \\ \overline{TV} &= 28.2 \\ \angle V &= \underline{\hspace{1cm}}^\circ\end{aligned}$$

8.



$$\begin{aligned}\angle S &= 26^\circ \\ \angle P &= 72^\circ \\ \overline{SM} &= 20 \\ \overline{PM} &= \underline{\hspace{1cm}}\end{aligned}$$

9.



$$\begin{aligned}\angle B &= 80^\circ \\ \angle Z &= 25^\circ \\ \overline{ZB} &= 44 \\ \overline{BG} &= \underline{\hspace{1cm}}\end{aligned}$$